# Tachyon Graphics Monitor

## User's Guide
## Version 2.0

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2003-2

# Tachyon Graphics Monitor 2.0

## PART I: Introduction to the Tachyon Graphics Monitor (TGM) 2.0

The Tachyon Graphics Monitor (TGM) is a system utility for Windows® that was specially designed by Tyan Computer for Tachyon Series Graphics Cards. Tachyon Graphics Monitor 2.0 allows you to separately tune the speed of the VPU's core engine clock and the memory clock, monitor in real-time your hardware's key indicators, and regulate the fan speed for optimal acoustics in your system. For all questions regarding TGM software, please send email to tgm@tyan.com.

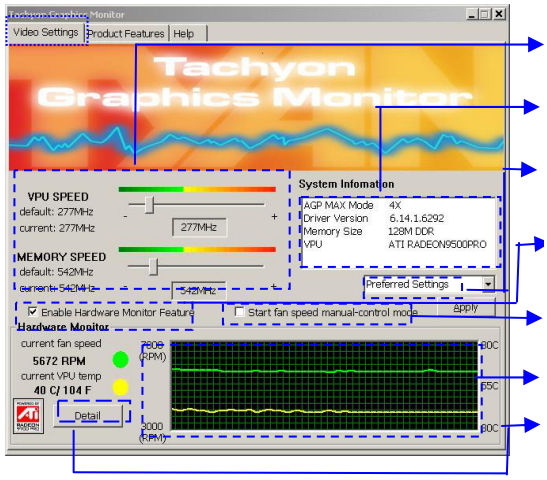
## PART II: System Requirements for TGM 2.0

- Tachyon G9500 Series or G9200 Series Graphics Card is needed to use Fan Speed Adjustment Feature.
- Windows® XP or 2000. (Support for Windows 98 and ME will be available in April 2003. Please check http://www.tyan.com/support/html/tgm.html for the latest TGM updates.)
- CD-ROM drive.

## PART III: TGM 2.0 Installation

- Insert the Driver CD into your CD-ROM.
- If Windows® DOES NOT run automatically, click **Start->Run**. Type **D:\TyanSoft.exe** (If **D** is not your CD-ROM drive, substitute with the correct drive letter.) Click **OK**.
- Click on **Install Software**. Click on **Tachyon Graphics Monitor**. The Installation Wizard will begin. Carefully follow the on-screen directions to complete installation.

## PART IV: Video Settings, Product Features and Help Windows




Separate VPU and Memory Speed Tuning Slide Controls

Key System Information Display

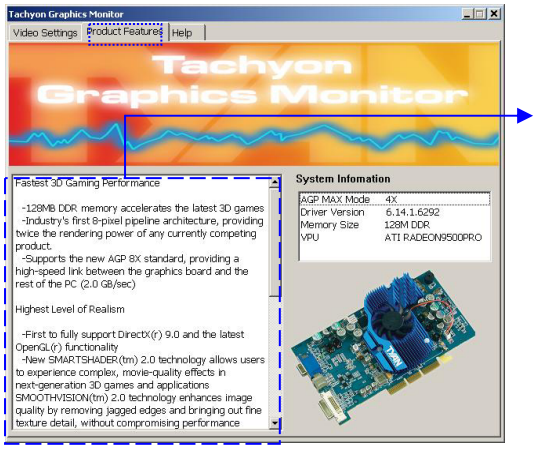
Default/ Preferred Settings Menu and Apply Settings Button

Enable/Disable Hardware Monitor Feature Button

Enable/Disable Fan Speed Manual-Control Mode Button

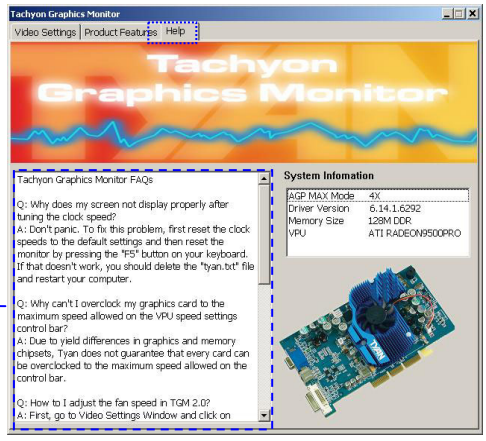
Real-time Hardware Monitor Graph

Hardware Details Window Button


Tachyon Graphics Monitor
Video Settings
Product Features
Help
Tachyon Graphics Monitor
Fastest 3D Gaming Performance
-128MB DDR memory accelerates the latest 3D games
-Industry's first 8-pixel pipeline architecture, providing twice the rendering power of any currently competing product.
-Supports the new AGP 8X standard, providing a high-speed link between the graphics board and the rest of the PC (2.0 GB/sec)
Highest Level of Realism
-First to fully support DirectX(r) 9.0 and the latest OpenGL(r) functionality
-New SMARTSHADER(tm) 2.0 technology allows users to experience complex, movie-quality effects in next-generation 3D games and applications
SMOOTHVISION(tm) 2.0 technology enhances image quality by removing jagged edges and bringing out fine texture detail, without compromising performance
System Infomation
AGP MAX Mode 4X
Driver Version 6.14.1.6292
Memory Size 128M DDR
VPU ATI RADEON9500PRO

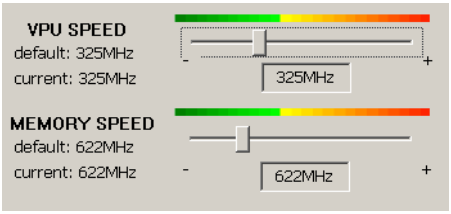
A short list of your Tachyon Graphics Card's exciting and unique features

A list of FAQs about the TGM and your Tachyon Graphics Card

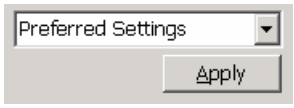

Tachyon Graphics Monitor
Video Settings
Product Features
Help
Tachyon Graphics Monitor
Tachyon Graphics Monitor FAQs
Q: Why does my screen not display properly after tuning the clock speed?
A: Don't panic. To fix this problem, first reset the clock speeds to the default settings and then reset the monitor by pressing the "F5" button on your keyboard. If that doesn't work, you should delete the "tyan.txt" file and restart your computer.
Q: Why can't I overclock my graphics card to the maximum speed allowed on the VPU speed settings control bar?
A: Due to yield differences in graphics and memory chipsets, Tyan does not guarantee that every card can be overclocked to the maximum speed allowed on the control bar.
Q: How to I adjust the fan speed in TGM 2.0?
A: First, go to Video Settings Window and click on
System Infomation
AGP MAX Mode 4X
Driver Version 6.14.1.6292
Memory Size 128M DDR
VPU ATI RADEON9500PRO

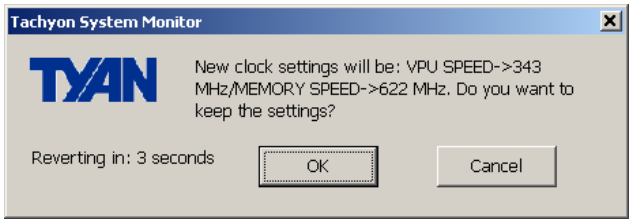
# Tachyon Graphics Monitor 2.0

## PART V: Overclocking your Tachyon Graphics Card

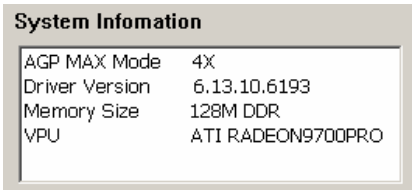



Under "VPU SPEED," you will find both the factory default speed setting and the current speed of the VPU. Under "MEMORY SPEED," you will find both the factory default setting and the current speed of your memory. In order to change the speed of the VPU or memory, first point and click on the slide control button provided and then pull the button to the right (increase) or to the left (decrease) until the desired speed is selected. Second, you must click the "Apply" button located under the System Information display to execute the desired settings. In the drop down menu located under the System Information display, you will see two choices: "Default Settings" and "Preferred Settings." "Default Settings" will set the VPU and memory speed back to the factory default settings. "Preferred Settings" will set the VPU and memory speed back to the last applied personal settings. After you click the "Apply" button, a confirmation dialog window will appear. This window will display the desired clock speed settings. Confirm these settings by clicking "OK" or cancel these settings by clicking "Cancel." You will have ten seconds to make your decision or the new settings will be canceled. If canceled, the TGM will automatically set the VPU and memory speeds back to the last applied personal settings.



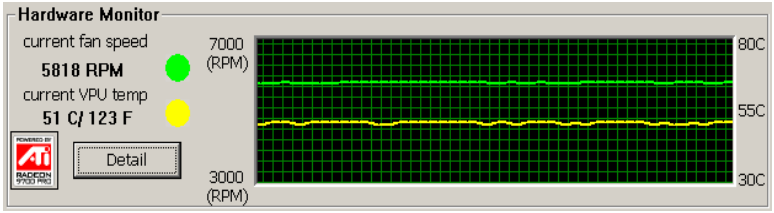


Tachyon System Monitor
New clock settings will be: VPU SPEED->343 MHz/MEMORY SPEED->622 MHz. Do you want to keep the settings?
Reverting in: 3 seconds
OK
Cancel

## PART VI: Understanding the System Information Display



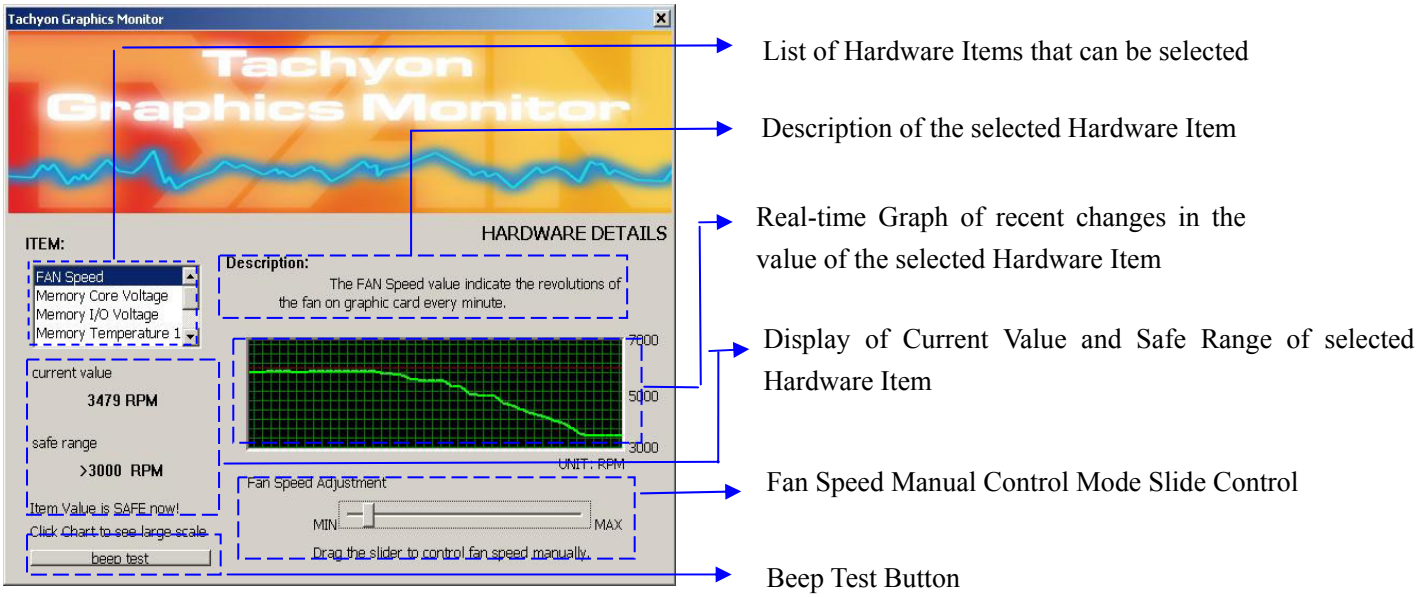

When loaded, the TGM will automatically extract the following information: AGP MAX Mode, Driver Version, Memory Size and VPU model. "AGP MAX Mode" refers to the maximum AGP bus mode supported by your motherboard. "Driver Version" refers to the current driver version installed with your graphics card. Compare this information with the driver version available on the Tyan website to determine whether or not you have the latest driver. Installing the latest driver update may give you new software functions and improve your card's performance. "Memory Size" refers to the amount and type of memory on your Tachyon graphics card. "VPU" refers to the specific model of the graphics processor used on your card.

## PART VII: Reading the Hardware Monitor

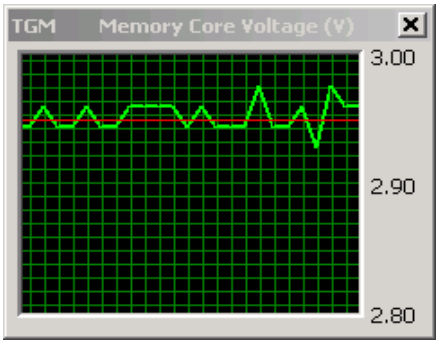



The TGM's Hardware Monitor was designed to help you determine in real-time the safety of your system by monitoring key indicators such as fan speed and VPU temperature. To enable the Hardware Monitor, go to the main Video Settings Window and click on the "Enable Hardware Monitor Feature" button. ****NOTE: PLEASE DISABLE the Hardware Monitor while using graphic intensive applications like computer games or benchmarks**. As the Hardware Monitor shares the same AGP bus, the performance of your applications and the hardware indicator readings in the TGM will be affected. However, even if the Hardware Monitor is disabled or the TGM Window is closed, the program will still beep if one of the Hardware Items falls below or exceeds the designated safe range.

## PART VIII: Hardware Details Window


Tachyon Graphics Monitor
Tachyon Graphics Monitor
HARDWARE DETAILS
ITEM:
FAN Speed
Memory Core Voltage
Memory I/O Voltage
Memory Temperature 1
Description:
The FAN Speed value indicate the revolutions of the fan on graphic card every minute.
current value
3479 RPM
safe range
>3000 RPM
Item Value is SAFE now!
Click Chart to see large scale
beep test
7000
5000
3000
UNIT : RPM
Fan Speed Adjustment
MIN
MAX
Drag the slider to control fan speed manually.
List of Hardware Items that can be selected
Description of the selected Hardware Item
Real-time Graph of recent changes in the value of the selected Hardware Item
Display of Current Value and Safe Range of selected Hardware Item
Fan Speed Manual Control Mode Slide Control
Beep Test Button

To view the status of hardware items other than VPU temperature and fan speed, click on the "Detail" button in the main Video Settings Window. In the Hardware Details Window, you can choose from a list of 7 hardware items: Fan Speed, Memory Core Voltage, Memory I/O Voltage, Memory Temperature 1, Memory Temperature 2, VPU Core Voltage, and VPU Temperature. In each graph, the Y-axis was set according to the "safe range." The thin red line indicates the recommended value of the hardware item being monitored. **Please note that this value is just a reference point.** The card is considered "safe" as long as the "current value" remains within the indicated "safe range." If any of the hardware item indicators should exceed or fall below the designated "safe range," then your graphics card will alert you by making a beeping sound. If you click on the main graph in the Hardware Details Window, another higher resolution graph will pop up in a separate window. This graph allows you to view in more detail the slightest changes in each hardware item's value. You can think of these real-time graphs as helping you to "monitor the heartbeat" of your Tachyon graphics card. To familiarize yourself with the sound of the beeper on your card, please click on the "beep test" button.




## PART IX: Fan Speed Adjustment (Currently only available on G9500 and G9200 Series)

Reducing the fan speed will lower the overall noise level in your PC system for a more pleasant work environment. First, go to the Hardware Details Window and select "Fan Speed" in the Hardware Item List. Next, point and click on the slide control and then pull the button to the desired acoustic setting. If you click on the "Start fan speed manual-control mode" button in the main Video Settings Window, the TGM will automatically set the fan speed back to the last applied manual settings. If you wish to change the setting, please go to the Hardware Details Window and use the slide control to set the fan to the desired speed.

****NOTE:** The TGM will not allow you to completely stop the fan, as that may cause serious damage to your graphics card. If you forget to re-adjust the fan speed while you are using graphics intensive applications, the TGM will automatically return the fan to the MAX speed once the VPU temperature reaches 60 degrees Celsius.